

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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number each item was given upon
cataloging the materials.*

G. undulata

April 23 1874

Arizona, Palermo 642

that of stage 25th with same

x 10



Follen x 615



4-5-7 stamens (mostly 6)
lobes of calyx 5-6
spatulate, divided
to base

CONVOLVULACEAE



0 1 2 3 4 5 6 7 8 9 10

cm

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APOTHECARY & CHEMIST

Cor 4th & Olive Sts. St. Louis.

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Blongifolia

Calyx lobes ovate

54-62

Chouteau Group, and make it include the Chouteau Limestone, Vermicula
well developed at Chouteau Springs, Missouri, and also as the term Ch
Kinderhook, Illinois, as in some places in Missouri, and as Prof. Swallie
the Schuchertianiferous. The Illinois and Iowa geologists apply to it the
position of this group has been a matter of dispute among geologists for
use to designate the group to which Prof. Swallow and Prof. Hall, in
* In this Table, I have marked the formation immediately at the base
was not ascertained. The numbers express the vertical thickness in feet
† Where this sign (†) occurs after the name of a formation, it shows that

MORGAN COUNTY.	F. B. Meek	FORMATIONS.
PULASKI COUNTY.	Lower Carboniferous	*Chouteau Group
MILLER COUNTY.	10	Lower Devonian
CRAWFORD COUNTY.	20	Upper Silurian
LACLEDE COUNTY.	35	Hudson River
	20	Trenton
	20	Black River and Birdseye
	40	First Magnesian
	40	Saccharoidal Sandstone
	175	Second Magnesian
	175	Second Magnesian
	40	Second Magnesian
	70	Second Magnesian
	300	Third Magnesian
	300	Third Sandstone
	70	Fourth Magnesian
	27	Potsdam Sandstone

COMPARATIVE VIEW OF GEOLOGY



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cm

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calcareous beds at the upper portion of the Chouteau Group, and the Saccharoidal Sandstone. They have formed the chief guides in the construction of our section. An important fact is also brought forth in the determination of thickness and extensive range of this Sandstone, so useful for glass making, etc.

For comparison, I give the following Tabular Statement of the thickness of the same Geological Formations in different counties of Missouri:



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cm

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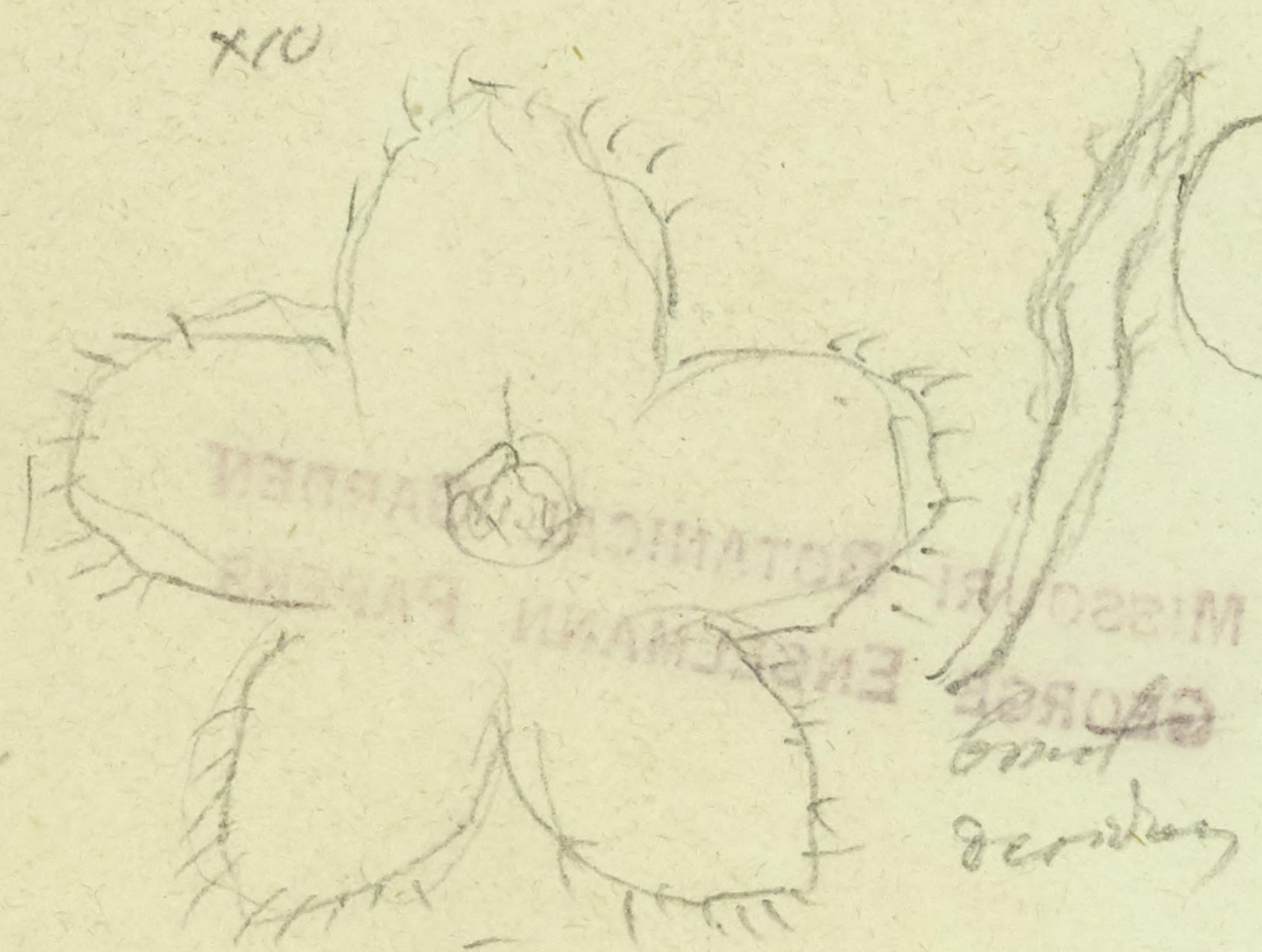
oblong plan
Gemm ~~Tengmalmii~~?

April 23 1876

San Diego, Kellogg 1873.

x10

bud
leaf, closeplint
= g. alba



calyx usually
5 lobed, lobes
ovate obtuse



6-8 anthers

of base

MISSOURI BOTANICAL GARDEN KELLOGG 1873



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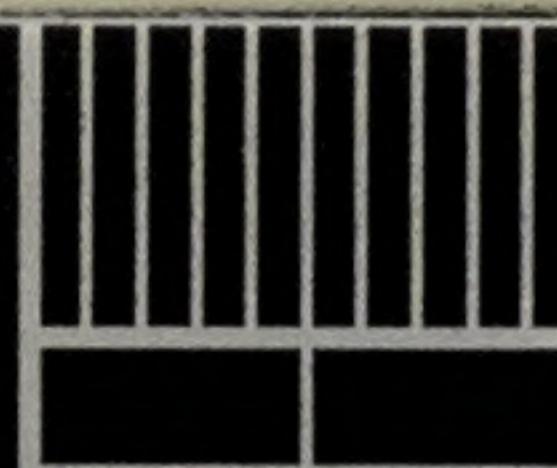
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Guaiacum oblongifolium (Parish, Letter, July 5 1882)
about San Felipe and west of Julian
very abundant and fine with dense and
spreading top, 100 feet spread, the tree only
half as high.



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copies of "Engelman's genus
Isoëtes in N America."

A separate issue of a portion of the
4th Volume St Louis Academy of Science
which we should like with
Bill by Mail

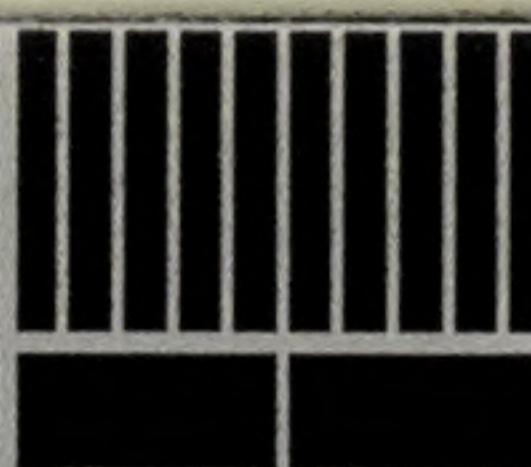
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and oblige

Yours truly
Little Brown & Co
per D Jefferson —

D. Geo J. Engelmann
411 Olive

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Zamia monosperma can hardly be called an evergreen. In March, when the new leaves just put out only a few old yellow leaves remain, ready to fall.

225

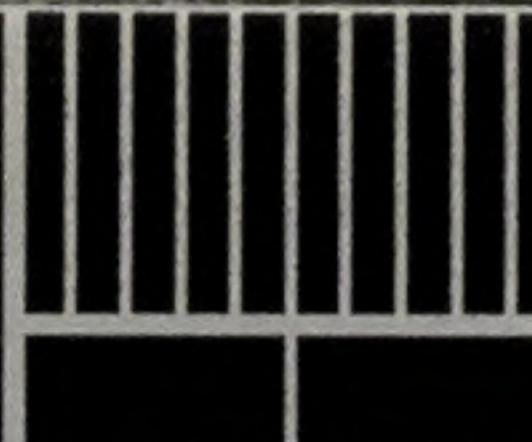
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Parish No R&I

Long Island

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1930 1000 1000 1000 1000 1000 1000 1000 1000 1000



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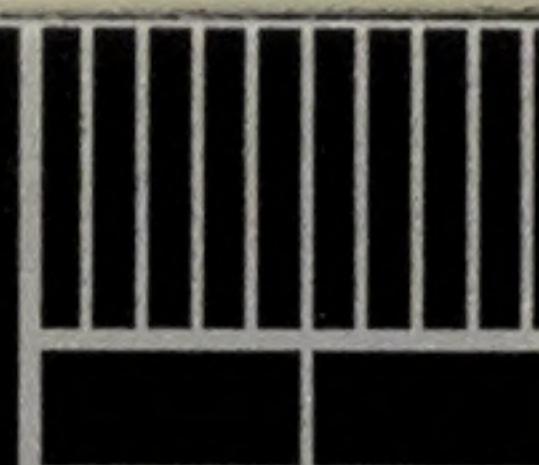
George Engelmann

Engelmann

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BE PUBLISHED QUARTERLY HERAFTER.

AS YOU WILL OBSERVE THE JOURNAL IS TO



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Torrey - Bot. Journal p. 206 unites
G. grisea ^{Libn. 1854} with *G. oblong-folia*, ¹⁸⁵³ which seems to
be the older name



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cm

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5842

Frank Frederick

Adm.

Charles Koeller

One

F.B. Hanke & Co

11/2 M. 5th

1. Men's (L) 80 (or 1.)

Weight

35

Cane Ann 2 3/5

mp 5 1/2

85

91

10

Stirr 4 6/5

rip

22 8/5

7 1/5

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cm

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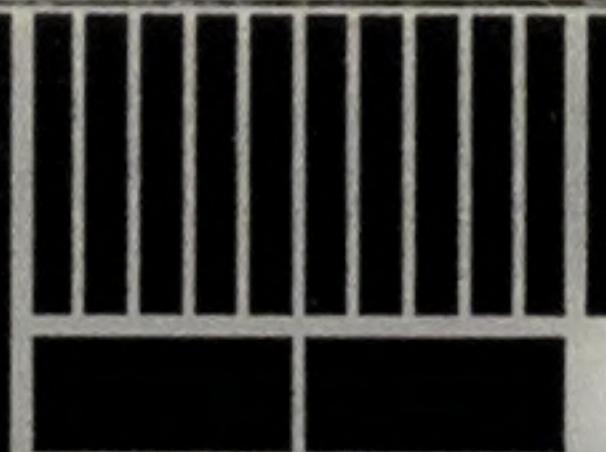
Quercus oblongifolia "evergreen white oak"
near San Diego. A storm broke down many
of these trees - heart wood dark, acorns
of every shape and size!

C.C. Parry Jan 21 1882

All the San Gabriel Oaks are oblong-
folia

J. Douglasii not seen south of Tschackipi
(near Mohave station.)

Parry Jan 21 '82



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ur attendance at the meetings has increased. The
age of the temporarilites of the Academy, have earn-
edness, and have nearly succeeded; so that it is
1881, the Academy will be out of debt. Thereaf-
he current proceedings, but the proceedings of the

rnestly ask the Scientific Societies exchanging and
emy, to continue sending their proceedings to us;
Societies who have refrained from forwarding their
hem to us to complete our files.

Very respectfully and truly,

GEORGE DAVIDSON,

Pres't California Academy of Sciences.

0
cm

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Tree near RR Station
San Gabriel

Quercus oblongifolia Tan ?
San Gabriel

April 27th
1881

J. C. Parry



furze
foliage deep green
above. rusty cinnamon
green beneath

light
Bark dark gray
with shallow furrows.
branches somewhat twisted

Diameter trunk 18 inches
height of tree 4 ft
" " tree 25? ft



0
cm

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